

DOUGLAS A. DUCEY
Governor



THOMAS BUSCHATZKE
Director

ARIZONA DEPARTMENT OF WATER RESOURCES

3550 North Central Avenue, Second Floor
PHOENIX, ARIZONA 85012-2105

(602) 771-8500

RECEIVED

JUN 01 2018

ADWR

DESIGNATION OF ADEQUATE WATER SUPPLY
DESIGNATED WATER PROVIDER 2017 ANNUAL REPORT

WATER PROVIDER:

40-900000.0000	ARIZONA WATER COMPANY - LAKESIDE
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Address: PO Box 29006 City, State, Zip Code: Phoenix, AZ 85038
Owner name: Arizona Water Company Contact name: Joe Mauzy
Phone: (602) 240-6860 Title: Vice President - Operations
Email address: jmauzy@azwater.com

PART I - TOTAL WATER WITHDRAWN, DIVERTED OR RECEIVED IN 2017, as reported by you
on the Community Water System (CWS) report: 759.78

PART II - COMMITTED WATER DEMAND

Committed demand is the estimated future water demand at build out of all recorded lots or parcels that are **not yet served** within your service area. Estimate the future annual demand in acre-feet for undeveloped, recorded lots or parcels that were located in your service area as of December 31, 2017. Report demand for residential lots and non-residential parcels separately as indicated below:

		Annual demand per residential lot (acre-feet/year)	Total annual demand (acre-feet/year)
Number of recorded residential lots	Number: <u>388</u>	0.138	54.71
Number or acres of recorded non-residential parcels	Number: <u>8</u>		2.8
		Grand total (acre-feet)	57.51

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Explain how the non-residential demand was calculated. Use a separate sheet if necessary.

Non-residential demand was calculated by taking the total amount of non-residential metered deliveries in the Lakeside water system (127.33) and dividing that number by the number of non-residential service connections in the Lakeside water system (218), which equals 0.35 acre feet per non-residential connection. The 0.35 acre feet is multiplied by the number of undeveloped non-residential parcels (8) to equal 0.35 acre feet for committed annual demand for the remaining undeveloped non-residential parcels.

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PART III - PROJECTED ANNUAL WATER DEMAND

Project the annual water demand in acre-feet for each year indicated. Calculate the increase in demand for each year from the previous year. The projected demand in most cases will be greater than the total water use for the current year. Current year demand should equal the total water withdrawn, diverted and received for delivery in your service area for 2017 as reported in Part I. Include all water sources used. To calculate GPCD (gallons per capita per day) divide the total demand in gallons per day by the population in your service area.

Year	Projected Population	GPCD	Total Demand (acre-feet/year)	Increase from previous year (acre-feet/year)
2017	11,665	57.51	751.45	
2018	11,755	57.51	757.25	5.80
2019	11,845	57.51	763.05	5.80
2020	11,935	57.51	768.85	5.80
2021	12,025	57.51	774.64	5.79
2022	12,115	57.51	780.44	5.80
2023	12,205	57.51	786.24	5.80
2024	12,295	57.51	792.04	5.80
2025	12,385	57.51	797.84	5.80
2026	12,475	57.51	803.63	5.79
2027	12,565	57.51	809.43	5.80

Explain how the population projection was made. Use a separate sheet if necessary.

The population projection for the Lakeside water system was calculated by graphing the population for each of the last six years, and adding a linear regression trendline. Using this projection method, it is estimated that the population in the Lakeside water system will increase by about 90 persons per year.

PART IV - WATER QUALITY

A. Is the water provider currently in compliance with the Arizona Department of Environmental Quality's state water quality standards and reporting requirements? X yes no

If "no", please provide an explanation on a separate sheet.

B. Have any new Superfund or WQARF sites been identified within the water provider's service area or have existing contaminant plumes migrated to be within one mile of any service area wells? X yes no

If "yes", please provide an explanation on a separate sheet.

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PART V - CERTIFICATION AND SIGNATURE

I hereby certify, under penalty of perjury, that the information contained in this report is, to the best of my knowledge and belief, true, correct and complete.



Authorized Signature

Robert Romo, Senior Operation Analyst, for

Joe Mauzy

Printed Name

6-1-18

Date

Vice President - Operations

Title

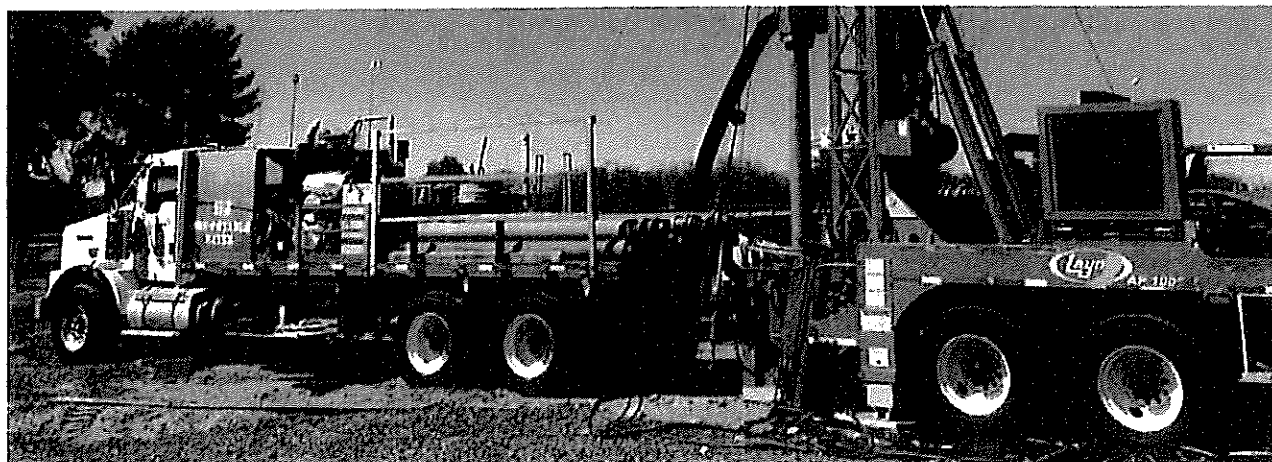
Mail (United States mail), email, or hand-deliver this report to:

Arizona Department of Water Resources
Office of Assured and Adequate Water Supply
PO BOX 36020
Phoenix, Arizona 85067-6020
assuredadequate@azwater.gov

(602) 771-8599, voice (602) 771-8689, fax

Report is due no later than 5 p.m., June 1, 2018

HWY 260 and Johnson Lane Water Quality Assurance Revolving Fund Site



Drilling a groundwater monitoring well at a WQARF site.

This fact sheet is a publication of the Arizona Department of Environmental Quality (ADEQ) to inform community members near the Highway (HWY) 260 and Johnson Lane Water Quality Assurance Revolving Fund (WQARF) site of current site activities in Navajo County as per A.R.S. § 289.02. If you receive your drinking water from Arizona Water Company, your drinking water is not affected by the groundwater contamination at the site.

A glossary of terms is located at the end of this fact sheet.

Site Description and Information

ADEQ recently added the HWY 260 and Johnson Lane site to the WQARF registry. The site is located in the Lakeside portion of the Town of Pinetop-Lakeside, Arizona. The site is generally bounded to the north by the Jackson Lane alignment, to the south by the east-west alignment of West White Mountain Boulevard (State Route HWY 260) and Burke Lane, to the east by the western side of

the Blue Ridge Unified School District property and Billy Creek, and to the west by the Neils Hanson Lane alignment (Figure 1, back page plume map). The site includes a mixture of public, commercial and residential land uses along State Route HWY 260.

During groundwater sampling in 2015, tetrachloroethene (PCE) and trichloroethene (TCE) were detected in private wells on properties near the intersection of HWY 260 and Johnson Lane. Only PCE concentrations were above the Arizona Aquifer Water Quality Standard (AWQS) of 5 parts per billion (ppb). TCE concentrations were below the AWQS of 5 ppb.

Groundwater in this area is generally found at depths ranging from 10 to 150 feet below the ground surface. Based on historical and recent data, groundwater flow is to the northwest.

What are the contaminants at this site?

PCE is a manmade solvent commonly used in the dry cleaning process and as a degreaser in many industrial applications. TCE is a solvent primarily used in metal degreasing and cleaning operations and can also be a breakdown product of PCE.

Scope of Work, Outline of Community Involvement Plan, and Fact Sheet

Availability Notice Pursuant to A.R.S. §49-287.03 (c) (d), ADEQ is announcing the availability of the scope of work, outline of a community involvement plan and fact sheet for the HWY 260 and Johnson Lane site.

To obtain copies, contact Wendy Flood at (602) 771-4410; 1-800-234-5677 Ext: 6027714410

What is the Water Quality Assurance Revolving Fund?

The WQARF Program was established by Arizona law to:

1. Conduct statewide surface and groundwater monitoring
2. Study health effects
3. Perform early remedial actions
4. Conduct long-term remedial action programs

ADEQ established the WQARF Registry to include sites in Arizona where groundwater and/or soil contamination is present. Sites appearing on the WQARF Registry are managed by the WQARF Program for investigation and/or cleanup of contamination. The HWY 260 and Johnson Lane site was listed on the WQARF Registry due to the presence of PCE and TCE in groundwater beneath the site.

If you own or operate a private well within or near the area of this site, please contact ADEQ and we will arrange to collect a sample from your well.

What are the health risks associated with contamination?

There are multiple privately owned domestic water wells within the boundaries of the site. People who drink water containing PCE or TCE over many years could experience problems with their liver and may have an increased risk of cancer. ADEQ is concerned that additional privately owned domestic supply wells may be impacted by groundwater contamination in the area of the site.

The evaluation of this area does not necessarily represent a determination that the release of a hazardous substance at the site poses a threat to human health or the environment. Arizona Water Company (AWC) public supply wells are located outside the current site bound-

aries, and 4 of 5 AWC public supply wells in the area access the deeper Coconino or "C" aquifer which is not affected by this contamination.

AWC regularly samples its Lakeside water system wells for PCE and TCE and none of these contaminants have been detected. All AWC wells are in compliance with all State and Federal Safe Drinking Water regulations.

What are ADEQ's Plans at this site?

ADEQ is currently conducting an Early Response Action (ERA) that includes evaluating options to address potential health risks. The site was listed on the WQARF Registry on June 24, 2016 with an Eligibility and Evaluation (E&E) score of 40 out of 120. ADEQ will begin the remedial investigation (RI) phase of the WQARF process to help determine the source of the contamination, as well as determine the depth and extent of groundwater contamination down gradient.

ADEQ will consolidate all the existing site characterization data, combined with a study of land and water uses in the area, into an RI Report. The site will then proceed through a feasibility study (FS) that will analyze potential cleanup methods for achieving the cleanup goals determined during the RI.

How can the public be involved?

As progress continues at the site ADEQ will keep the public informed through fact sheets and public meetings. Please sign up for our mailing list to be notified of site progress and to let us know if there are others who should be provided notice. Fill out and return the enclosed mailing information.

ADEQ is forming a Community Advisory Board (CAB) to advise ADEQ and the public of issues and concerns related to investigations and remediation of the site. The purpose of the CAB will be to:

- Provide comments to ADEQ on the RI Report, and other cleanup and investigation issues related to this site;
- Represent a diversified cross-section of the community in and around the site;

- Participate in outreach to the community;
- Make site visits if needed.

CAB Members Needed

- Are you concerned about the environment and protecting public health?
- Do you live, work, own property or a business in the area of the site and/or are you interested in the site?
- Do you have a minimum of two hours, four times a year to volunteer?

If you answered yes to any of the questions and would like to apply to be a member of the CAB, please fill out and complete the enclosed application. For more information please call the ADEQ Community Involvement Coordinator listed at the end of the notice.

ADEQ Contacts:

Matt Narter

ADEQ Project Manager
(520) 770-3128 or
toll free at (800) 234-5677
Ext. 5207703128
E-mail: mn3@azdeq.gov

Wendy Flood, ADEQ Community

Involvement Coordinator
(602) 771-4410 or
toll free at (800) 234-5677
Ext. 6027714410
E-mail: wf1@azdeq.gov

To request an auxiliary aid or service for accessible communication, please contact ADEQ at (602) 771-4791 or at HRhelp@azdeq.gov or dial 7-1-1 for TTY/TTD Services.

For further information on this site or other WQARF sites, please visit the ADEQ web site at www.azdeq.gov. Click on Programs, Waste Programs, then State Superfund (WQARF), and follow the prompts for the information you need. Information about the HWY 260 and Johnson Lane site is available at the ADEQ main office located at 1110 West Washington. Please call the Records Management Center at (602) 771-4380 48 hours in advance for a file review appointment.

GLOSSARY

Aquifer Water Quality Standard

These are enforceable standards set to protect the quality of the water in Arizona aquifers for present and foreseeable uses, including consumption of the water by humans.

Contamination

Any hazardous substance released into the environment.

Early Response Action

A cleanup activity that is performed prior to the final remedy and often prior to the completion of the Remedial Investigation because timeliness of response is required to protect the public health or environment.

Eligibility and Evaluation (E&E)

The Eligibility and Evaluation scoring model was established in 1996 pursuant to WQARF statute 49-287.01. Scores are derived from information about the contaminant release that is collected during the preliminary investigation.

Feasibility Study

The evaluation of potential remediation methods for achieving the cleanup goals determined during a remedial investigation.

Groundwater

Water found beneath the earth's surface that fills pores between materials such as sand, clay or gravel. In aquifers, groundwater occurs in sufficient quantities that it can be used for drinking water, irrigation and other purposes.

Remedial Investigation (RI)

An in-depth study designed to gather the data necessary to determine the nature and extent of contamination at a site and the risk posed by the contamination.

Trichloroethene (TCE)

A heavy, colorless liquid used to degrease metals, as an extraction solvent for oils and waxes, as a refrigerant, in dry cleaning and as a fumigant.

Tetrachloroethene (PCE)

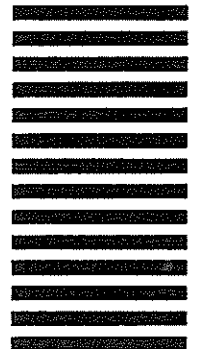
A clear, colorless, nonflammable solvent that readily evaporates at room temperature. PCE is widely used for dry cleaning of fabrics and degreasing/drying of metals.



COMMUNITY INVOLVEMENT COORDINATOR
6TH FLOOR, 1110 W WASHINGTON ST STE 127
PHOENIX AZ 85007-9973



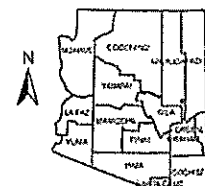
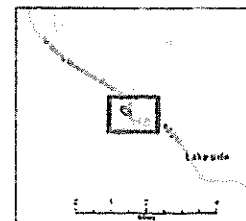
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UNITED STATES



HWY 260 and Johnson Lane WQARF Site - Pinetop Lakeside, Arizona



FACT SHEET



Legend:
 Estimated Plume Boundary
 Plume Data Update: 08/01/2015

Map Date: April, 2016
 Publication Number M 16-29

Plume boundaries depicted on the site map represent ADEQ's interpretation of data available at the time the map was constructed. The map is intended to provide the public with basic information as to the estimated geographic extent of known contamination as of the date of map production. The actual extent of contamination may be different. Therefore, the plume for this site may change in the future as new information becomes available.

Figure 1 - Highway 260 and Johnson Lane Map